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NOTICE OF ALLOWANCE AND FEE(S) DUE

28581

7590

12/16/2008

DUANE MORRIS LLP - Princeton PO BOX 5203 PRINCETON, NJ 08543-5203 EXAMINER

JOHNSON, KEVIN M

ART UNIT PAPER NUMBER

1793

DATE MAILED: 12/16/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518.129	12/14/2004	Emily A. Carter	58086-223916	6714

TITLE OF INVENTION: SUPPORTED METAL CATALYST WITH IMPROVED THERMAL STABILITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/518,129 TITLE OF INVENTION	12/14/2004 : SUPPORTED METAL	CATALYST WITH IM	Emily A. Carter PROVED THERMAL ST	TABILITY		58086-223916	6714
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nonprovisional	YES	\$755	\$300	\$0		\$1055	03/16/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
JOHNSON,	KEVIN M	1793	502-303000	_			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O 			or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will b	names of up to 3 registered patent attorneys ts OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is on name will be printed.			
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interest as shown by the r	records of the United Sta	tes Patent and Trademark	Office.				
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DUANE MORRI	IS LLP - Princeton		JOHNSON, KEVIN M		
PO BOX 5203			ART UNIT	PAPER NUMBER	
PRINCETON, NJ	08543-5203		1793		
			DATE MAILED: 12/16/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 782 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 782 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Annlicant(a)	
	Application No.	Applicant(s)	
Nation of Allowability	10/518,129	CARTER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	KEVIN M. JOHNSON	1793	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in the or other appropriate communicement. This application is subsected by the communication of the communication in the communication	nis application. If not included cation will be mailed in due course	
1. 🔀 This communication is responsive to the amendment filed	<u>7/28/2008</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-8 and 24-29</u> .			
 3.	been received. been received in Application	No	
3. Copies of the certified copies of the priority do	cuments have been received i	n this national stage application fro	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAN	IINER'S AMENDMENT or NOTICE	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	. , -	odaration to donoiont.	
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached	
	-	1 10-340) attached	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ne
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of Info	mal Patent Application	
 Notice of Neterences Gled (110-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Sun	, ,	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./M	ail Date mendment/Comment	
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Si	atement of Reasons for Allowance	e
or biological material	9. 🔲 Other		

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 9-16 have been cancelled.

Election/Restrictions

2. This application is in condition for allowance except for the presence of claims 9-16 directed to an invention non-elected without traverse. Accordingly, claims 9-16 have been cancelled.

Response to Arguments

3. Applicant's arguments, see pages 5-8, filed 7/28/2008, with respect to claims 1-8 have been fully considered and are persuasive. The rejection of claims 1-8 has been withdrawn.

As applicant has correctly pointed out in the arguments to claims 1-8, the claims as amend require that a metallic monolayer and a plurality of catalyst particles on the surface of an alumina support. The prior art material of Lauth (US 5559065) and Chang (US 2001/0041277) fails to account for a monolayer that is separate from the catalyst particles on the catalyst support surface.

Reasons for Allowance

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4. The following is an examiner's statement of reasons for allowance: the prior art neither anticipates nor obviates a catalytic system in which a metallic monolayer of Ti, Zr, Sc, Hf, La or Y exists on the surface of an alumina support upon which a plurality of catalyst particles is attached. Catalyst systems that include oxide monolayers on alumina supports are known in the prior art (US 4559364), but it would not be obvious to one skilled in the art at the time of the invention to replace the oxide monolayer with a metallic monolayer. It is also known in the prior art to modify alumina supports with support modifiers such as Sc, Y, La, Ti, Zr, and Hf by incorporating the support modifier in to the surface of the support (US 6566573). The support modifiers then help to facilitate the bonding of the catalyst particles, such as Pt, to the support, but the support modifiers are a part of the support surface in such a process and do not constitute a monolayer on the provided on the surface of the support. It would not have been obvious to one skilled in the art at the time of the invention to substitute a metallic monolayer on a support for the metal modified support of such a system.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN M. JOHNSON whose telephone number is (571)270-3584. The examiner can normally be reached on Monday-Friday 7:30 AM to 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J.A. LORENGO/ Supervisory Patent Examiner, Art Unit 1793

/Kevin M Johnson/ Examiner, Art Unit 1793